



Fig. S1. A representative treatment case. 53-year-old woman with severe chronic periodontitis.

**a.** Preoperative clinical view. PD 7.0 mm, CAL 8.0 mm, INTRA 6.0 mm. **b.** During surgery; INTRA of the defect was 6.0 mm. **c.** Preoperative (baseline) radiograph, in the distal aspect of the mandibular right second molar. Vertical bone defect is evident. **d.** Radiograph after 1 year. An improvement in radiolucency can be observed in the distal aspect. **e.** Radiograph after 2 year, showing further improvement in the distal aspect. PD 4.0mm, CAL 4.0 mm.